

**OFFICE OF ELECTRICITY DELIVERY AND ENERGY RELIABILITY (OE)**  
**U.S. DEPARTMENT OF ENERGY**  
**Gulf Coast Hurricanes Situation Report #44**  
**December 5, 2005 (3:00 PM EST)**

**HIGHLIGHTS**

- Entergy New Orleans, Inc. (ENO) has briefed the Louisiana Emergency Operations Center on their \$11.2 million accelerated restoration and customer relief plan. The company has seen indications of repopulation in various areas of the city including permit requests, service outage calls, and turn-on requests, and has experienced an increasing backlog in responding to these requests. The company's plan will make electric and gas service available to all customers able to take service by year's end.
  - For electricity restoration the accelerated plan includes all of New Orleans except in three devastated areas of the City, where accelerated efforts are impractical:
    - Lakeview area including Fleur de Lis to the 17<sup>th</sup> Street Canal, Harrison Ave. to Old Hammond Hwy;
    - the devastated portion of the Lower Ninth Ward (Florida Ave. to North Galvez Street, Industrial Canal to the parish line); and
    - the devastated portion of New Orleans East (Lake Catherine area).The plan includes emergency/non-permanent repairs.
  - For gas restoration the exceptions to the accelerated plan are those areas of:
    - the devastated portion of the Lakeview area including (Fleur de Lis to the 17<sup>th</sup> Street Canal, Harrison Ave. to Old Hammond Hwy;
    - the devastated portion of the Lower Ninth Ward (Florida Ave. to North Galvez Street, Industrial Canal to the parish line); and
    - the devastated portion of the Desire area (Peoples Ave. to the industrial Canal, Almonaster to Florida).
  - The company noted that "Hurricane Katrina not only caused catastrophic and unprecedented damage to ENO's electric and gas facilities, but it also resulted in the loss of most of ENO's customers, an unprecedented occurrence in the U.S. Utility Industry."

**OIL AND GAS INFORMATION**

- As of 12/05/05, seven gas processing plants in Louisiana, with capacities equal to or greater than 100 million cubic feet per day, are not active. A number of the inactive plants are expected to be operating within 4 weeks.
- According to MMS (12/05), 509,270 barrels of oil per day are shut-in, which equates to 33.95 percent of the normal daily oil production in the Gulf. Shut-in gas production is 2.716 billion cubic feet per day. This shut-in gas production is equivalent to 27.16

percent of the normal daily gas production in the Gulf. Evacuations are equivalent to 16.12 percent of 819 manned platforms and 0.00 percent of 134 rigs currently operating in the Gulf. For further information see MMS web site at [www.mms.gov](http://www.mms.gov).

## Shut-in Oil and Gas Production

Ivan, Katrina and Rita

	Rita	Katrina	Ivan
<b>Shut-in Production High</b>	26-Sep	30-Aug	16-Sep 2004
Gas (BCF)	8.623	9.418	6.515
Oil (bbls)	1,564,679	1,557,981	1,410,002
<b>Cumulative (To Date)</b>	<i>Combined Rita / Katrina</i> 8/26/05 – 12/05/05		9/13/04 - 02/14/05
Gas (BCF)	<i>Combined Rita / Katrina</i> 509,484		172.259
Oil (bbls)	<i>Combined Rita / Katrina</i> 98,493,934		43,841,245

Source: U.S. MMS, December 5, 2005.

- According to the Louisiana Department of Natural Resources on 12/05, onshore crude oil production in southern Louisiana has reached 114,014 barrels per day, or 56.1 percent of the region's capacity; natural gas production of 1,401.1 million cubic feet per day, or 62.7 percent of daily capacity in 38 southern Louisiana parishes, has been restored. There are 55 on-shore pipeline operators in the hurricane-affected parishes. As of 12/05, 8 operator's facilities were reopened, 30 of the operator's facilities are shut-in, and 17 of the operators experience partial system shut-ins or flow.
- Shown below is a list of refineries impacted by the Gulf Coast Hurricanes as of November 21.

### REFINERY IMPACTS FROM GULF COAST HURRICANES

Company	Location	Capacity (B/D)	Status
<b>PORT ARTHUR/ LAKE CHARLES</b>			
ConocoPhillips	West Lake, LA	239,400	Reduced rate
<b>HOUSTON/TEXAS CITY</b>			
Lyondell Citgo	Houston, TX	270,200	Reduced rate
BP	Texas City, TX	437,000	Shut down – gasoline production slated for mid-December; full production by first quarter 2006
Total		707,200	<b>Shut down – 437,000</b>
<b>TOTAL from above</b>		<b>946,600</b>	
Two refineries in LA from Hurricane Katrina remain shut down – 367,000 b/d			
<ul style="list-style-type: none"> <li>ConocoPhillips Belle Chasse – shut down</li> </ul>			

Company	Location	Capacity (B/D)	Status
<ul style="list-style-type: none"> <li>Murphy Oil Meraux – Estimate 1<sup>st</sup> quarter 2006 start up</li> </ul>		367,000	<b>Total Shut down (Katrina + Rita)= 804,000</b>

Sources: Confirmed by company or on company web site. Various trade press sources.

- Shown below is a list natural gas pipelines impacted by the Gulf Coast Hurricanes as of December 5.

On-Shore and Off-Shore Pipelines with Reported Supply Issues	Status
Columbia Gulf Transmission	Effective Nov. 21, 2005, Columbia Gulf Transmission Company (CGT) will partially rescind a force majeure originally issued on Sep. 26, 2005. This partial rescission will apply only to those meters upstream of Eugene Island, 250A on the 26" line.
Duke Energy Field Services including CIPCO, Seabreeze and Black Lake	DEFS reported on Nov 29 <sup>th</sup> that operations are (and have been for some time) back to normal.
Enbridge Inc.'s Offshore System, which includes Garden Banks, Manta Ray, Nautilus, Stingray, and MS Canyon	As of Nov. 8, the Force Majeure on MS Canyon has been terminated. As of Dec 1, MS Canyon is still unable to accept liquids for transportation. Manta Ray pipelines are still out of service. Stingray restored operations December 1, 2005, but some onshore delivery points are limited due to a lack of onshore compression. In addition, communications infrastructure and individual meter station instrumentation offshore were more heavily damaged than originally estimated.
Enterprise Product Partners – GulfTerra and Gulf South (HIOS)	GulfTerra postponed integrity testing until January 2006. As of Nov 1, the ANR and UTOS delivery points are available on GulfTerra. On Dec 6, Gulf South may be required to schedule only primary firm capacity and implement scheduling reductions.
Kinder Morgan	Natural Gas Pipeline operating at capacity with a few pipeline segments at limited transport capacity. There are also limits to withdrawals allowed in the Amarillo area.
Southern Union's (Panhandle Energy) Trunkline and Sea Robin	Sea Robin is currently in the process of repairing a pipeline segment upstream of Vermilion 149 and segments upstream and downstream of East Cameron 195. The repair work is expected to last one to five weeks. Sabine points are released from the Force Majeure issued Sep. 27, 2005. Bayou Sale #1 still remains under Force Majeure with an anticipated return to service around Nov. 30, 2005.
Tennessee Gas	Equipment, compressor stations, facilities, and segments of several pipelines are still being repaired and will take months

On-Shore and Off-Shore Pipelines with Reported Supply Issues	Status
	to complete. As a result, some segments have limitations in place. The Operator of the Sabine Processing Plant informed Tennessee that the plant is back in service.

(Sources: Company web sites and Trade associations)